

100

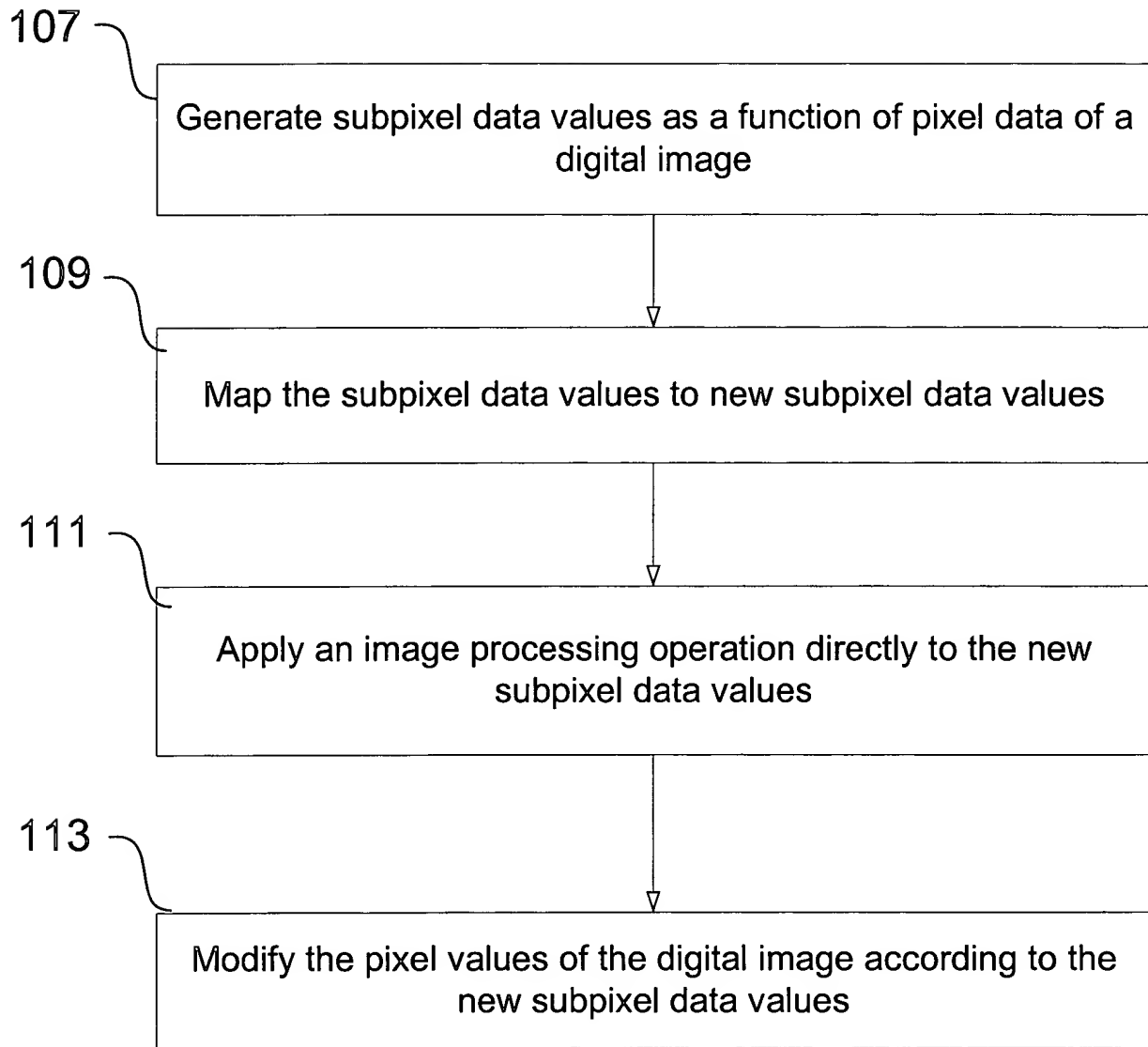


FIG. 1

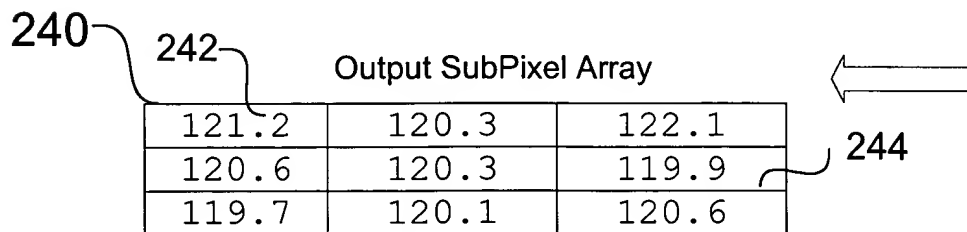
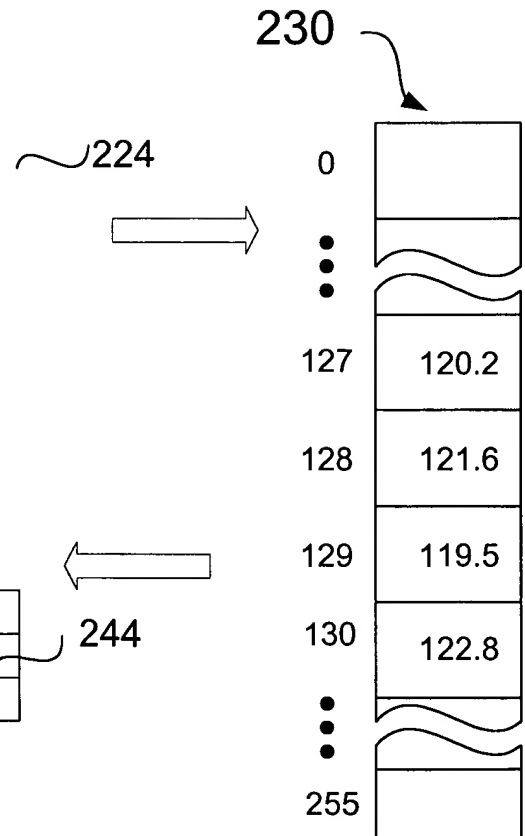
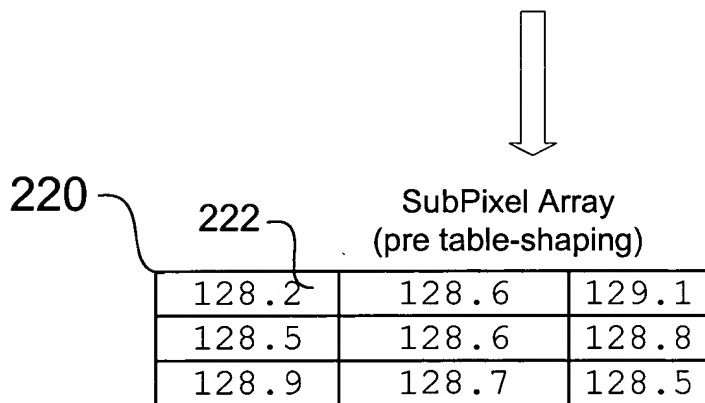
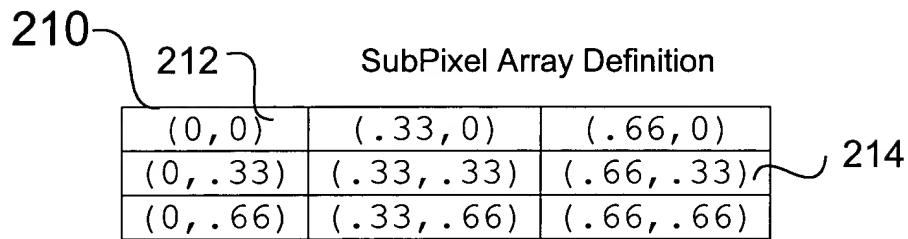
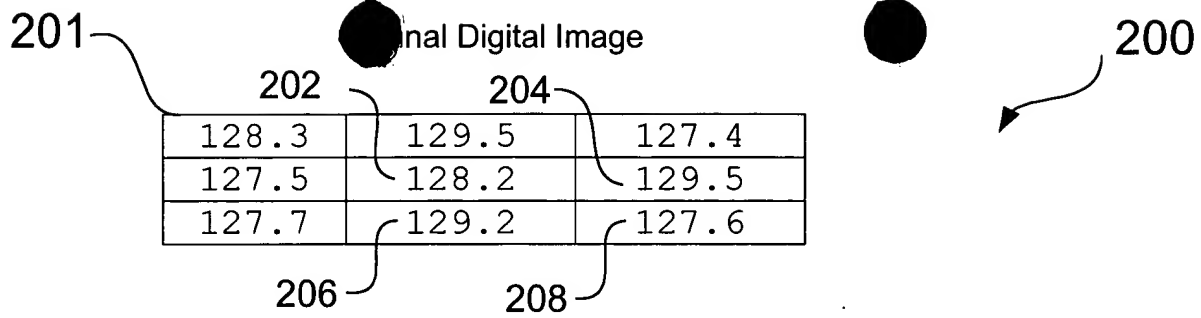


FIG. 2

FIG. 3 is a block diagram of a system 300 for performing a shading operation 320. The system 300 includes an image data block 303, a shading operation block 320, and a lookup table 313. The image data block 303 provides input to the shading operation block 320. The shading operation block 320 includes a grid of nine sub-blocks, each representing a different iteration of the shading operation. The grid is organized into three rows and three columns. The first row contains 'ITERATION ONE', 'ITERATION TWO', and 'ITERATION THREE'. The second row contains 'ITERATION FOUR', an ellipsis '...', and 'ITERATION NINE'. Each iteration sub-block contains a 3x3 grid of coordinate pairs (x, y). The coordinates for each iteration are as follows:

300

303

Image
Data

310

SPA1	SPA2	SPA3
SPA4	SPA5	SPA6
SPA7	SPA8	SPA9

Lookup
Table
313

320

Shading Operation

ITERATION ONE

(0, 0)	(0, 3)	(0, 6)
(3, 0)	(3, 3)	(3, 6)
(6, 0)	(6, 3)	(6, 6)

ITERATION TWO

(1, 0)	(1, 3)	(1, 6)
(4, 0)	(4, 3)	(4, 6)
(7, 0)	(7, 3)	(7, 6)

ITERATION THREE

(2, 0)	(2, 3)	(2, 6)
(5, 0)	(5, 3)	(5, 6)
(8, 0)	(8, 3)	(8, 6)

ITERATION FOUR

(0, 1)	(0, 4)	(0, 7)
(3, 1)	(3, 4)	(3, 7)
(6, 1)	(6, 4)	(6, 7)

ITERATION NINE

(2, 2)	(2, 5)	(2, 8)
(5, 2)	(5, 5)	(5, 8)
(8, 2)	(8, 5)	(8, 8)

...

FIG. 3

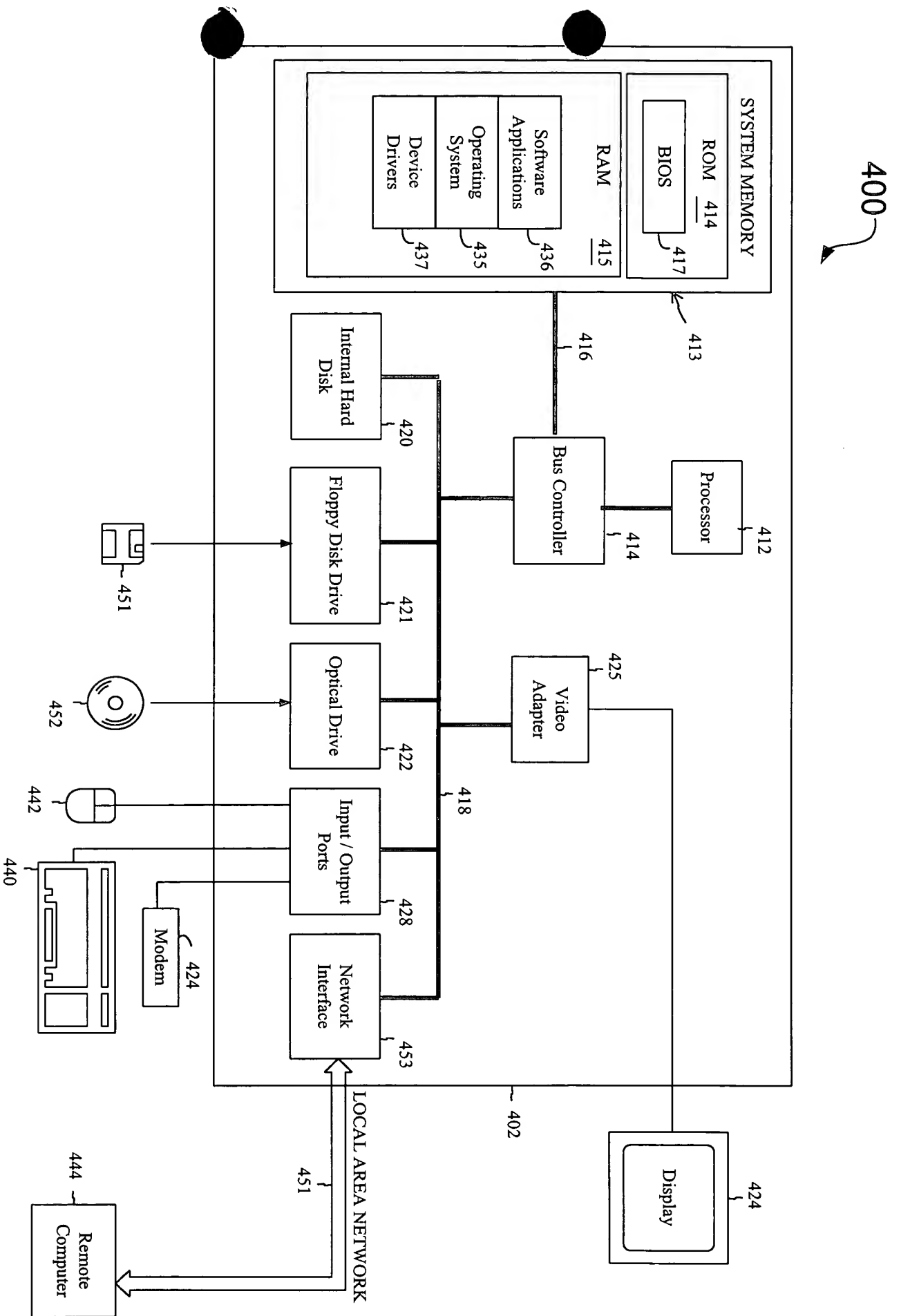


FIG. 4